

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Clamping A clamping tool comprising a first element $[(18)]$ and a second element $[(20)]$ capable of relative displacement under the action of a drive $[[means]]$ mechanism, this device the clamping tool comprising a screw $[(10)]$ with a given pitch $(P4)$ ~~capable of being adapted to be~~ driven in rotation about an axis $[(XX)]$ in one direction or in the opposite direction under the action of a motor $[[M]]$; a nut $[(12)]$ cooperating with the screw $[(10)]$ and ~~capable of being adapted to be~~ driven in translation in the direction of the axis $[(XX)]$ of the screw, the nut being rigid in translation with the first element $[(18)]$; a first guide section means ~~(34L)~~ defining a linear guide parallel to the axis $[(XX)]$ of the screw in order to lock the nut $[(12)]$ in rotation in a first phase of displacement $[(D1)]$ of the nut; and second guide section means ~~(34H)~~ defining a helicoidal guide which extends along the axis $[(XX)]$ of the screw $[(12)]$ and which second guide section has an inverted pitch $[(P2)]$ relative to the pitch $[(P1)]$ of the screw in order to allow rotation of the nut $[(12)]$ in the same direction of rotation as the screw $[(10)]$ in a second phase of displacement $[(D2)]$ of the nut, ~~characterised in that it comprises~~ the clamping tool further comprising a compensation system $[(46)]$ interposed between the first element $[(18)]$ and a mobile support $[(14)]$ rigid with the nut $[(12)]$ in order to ~~reinitialise the reinitialize a position of this first element (18) relative to the second element (20) in which the nut leaves the first guide section to meet the second guide section,~~ so that the first and second phases of displacement phases generated by the first and second guide sections means ~~(34L, 34H)~~ remain synchronous ~~with the phases necessary to optimisation of the displacement of the first element.~~
2. (Currently amended) Clamping The clamping tool according to claim 1, ~~characterised in that wherein~~ the compensation system $[(46)]$ comprises the mobile support $[(14)]$ in the form

of a tubular element rigid with the nut [(12)] and equipped with a male thread [(48)], as well as a hub [(50)] with a female thread and cooperating with the male thread of the mobile support (14), ~~this~~, the hub [(50)] supporting the first element [(18)] via a thrust ball bearing [(54)].

3. (Currently amended) Clamping The clamping tool according to claim 2, ~~characterised in that it comprises~~ further comprising positioning mechanism ~~means~~ (66; 76; 80) for selectively placing the hub [(50)] in one of the three following positions:

- normal position ("position A") in which the hub [(50)] is rigid in translation and in rotation with the mobile support [(14)];
- reinitialising position ("position B") in which the hub [(50)] is rigid in translation and rotation with the first element [(18)]; and
- intermediate position ("position C") in which the hub [(50)] is free except for its connection to the thrust ball bearing [(54)] and its threaded connection to the mobile support [(14)].

4. (Currently amended) Clamping The clamping tool according to claim 3, ~~characterised in that wherein~~ the positioning mechanism comprises ~~means comprise~~ a nut plate [(66)] rigid in rotation with the hub [(50)], freely displaceable in axial translation relative to the hub [(50)] and with [(a)] the female thread to cooperate with the male thread [(48)] of the mobile support [(14)]; a spring [(74)] contrived to move the nut plate away from one end [(70)] of the hub; solenoid plungers [(78)] rigid with a mobile disc [(76)] and traversing a plate [(16)] forming part of the first element [(18)]; and a winding [(80)] carried by the plate and contrived, when supplied with electricity, to displace the nut plate [(66)] towards the one end [(70)] of the hub [(50)] and the mobile disc [(76)] rigid with the solenoid plungers [(78)] towards the nut plate [(66)], counter to a spring-back element [(82)] acting on the solenoid plungers [(78)].

5. (Currently amended) Clamping The clamping tool according to claim 3, taken in combination, ~~characterised in that wherein~~:

- in the normal position ("position A"), the winding [(80)] is not supplied with electricity, so that the nut plate [(66)] is apart from the one end [(70)] of the hub [(50)], thus effecting locking of the hub on the mobile support [(14)];
- in the reinitialising position ("position B"), the winding [(80)] is supplied with electricity, so that the nut plate [(66)] comes closer into contact with the one end [(70)] of the hub [(50)] and the mobile disc [(76)] comes closer into contact with the nut plate [(66)], thus effecting locking of the hub [(50)] on the plate [(16)] and, consequently, on the first element [(18)]; and
- in the intermediate position ("position C"), the winding [(80)] is supplied with electricity, so that the nut plate [(66)] is brought closer into contact with the one end [(70)] of the hub [(50)], whereas the mobile disc [(76)] is brought closer to the nut plate [(66)] without coming into contact therewith due to the fact that the solenoid plungers [(78)] are held in the intermediate position, the hub [(50)] being free except for its connection to the thrust ball bearing and its threaded connection to the mobile support [(14)].

6. (Currently amended) Clamping The clamping tool according to claim 1, ~~characterised in that it comprises~~ further comprising a fixed support [(22)] which carries the motor [(M)] and the second element (20), ~~known as the~~ "fixed element".

7. (Currently amended) Clamping The clamping tool according to claim 6, ~~characterised in that it comprises~~ further comprising a column [(24)] fixed to the fixed support [(22)] and extending in a direction parallel to the axis of rotation [(XX)] of the screw in order to effect guiding in translation of the mobile support [(14)] which carries the first element (18), ~~known as the~~ "mobile element".

8. (Currently amended) Clamping The clamping tool according to claim 1, ~~characterised in that it comprises~~ further comprising a hollow cylindrical support [(30)] which has a cylindrical wall (32) ~~centred~~ centered on the axis of rotation [(XX)] of the screw [(10)], and in which are

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cut two opposite slides [(34)] each defining the first and second guide [[means]] sections, and in which respectively two tracking elements [(28)] are displaced carried by the nut [(12)].

9. (Currently amended) ~~Clamping~~ The clamping tool according to claim 1, characterised in that it wherein the clamping tool takes the form of soldering pliers, the first element [(18)] and the second element [(20)] forming an electrode and a counter-electrode, respectively.